

Title	Cover & Contents
Author(s)	
Citation	Bulletin of the Institute for Chemical Research, Kyoto University (1961), 39(4-5)
Issue Date	1961-11-15
URL	<a href="http://hdl.handle.net/2433/75854">http://hdl.handle.net/2433/75854</a>
Right	
Type	Others
Textversion	publisher

# BULLETIN OF THE INSTITUTE FOR CHEMICAL RESEARCH

KYOTO UNIVERSITY

Vol. 39, Nos. 4~5

*Published bi-monthly by*

THE INSTITUTE FOR CHEMICAL RESEARCH  
KYOTO UNIVERSITY  
KYOTO, JAPAN

November, 1961

*(Bull. Inst. Chem. Res., Kyoto Univ.)*

INSTITUTE FOR CHEMICAL RESEARCH  
KYOTO UNIVERSITY

**Director**

Risaburo NAKAI

**Members of Council**

Rempei Goto	Osamu HAYAISHI	Masao HORIO
Katsuhiko ICHIKAWA	Hiroshi INAGAKI	Kiichi KIMURA
Sango KUNICHIKA	Risaburo NAKAI	Ryohei Oda
Minoru OHNO	Ichiro SAKURADA	Tsunenobu SHIGEMATSU
Sakae SHIMIZU	Keiichi SHISHIDO	Eiji SUITO
Tomoji SUZUKI	Isamu TACHI	Hideo TAKAKI
Yoshimasa TAKEZAKI	Tetsuro TANAKA	Megumi TASHIRO
Waichiro TSUJI	Tatsuo YAMAMOTO	Hideki YUKAWA

**Editors**

Rempei Goto	Katsuhiko ICHIKAWA	Hiroshi INAGAKI
Sakae SHIMIZU	Michiyasu SUGII	Megumi TASHIRO
Natsu UYEDA		

**Secretary**

Gisaburo TABUCHI

**Treasurer**

Takeo GYOBU

**History of Publications**

Term	Vol.	Title	Published
Jan., 1929- Dec., 1947	1-16	化学研究講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
April, 1933	—	10 Jahre Institut für chemische Forschung (化学研究所創立十周年記念号)	—
March, 1949- Dec., 1949	17-19	化研講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
March, 1950- Sept., 1952	20-30	化学研究所報告 (Bulletin of the Institute for Chemical Research)	Quarterly
Dec., 1951	—	The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号)	—
Jan., 1953 onwards	31 No. 1-	Bulletin of the Institute for Chemical Research (化学研究所報告)	Bi-monthly

## CONTENTS

Shoji Umeda and Kimio Tarama : Adsorption Isotherm for Heterogeneous Surface. (II). The Effects of Induced Heterogeneity and of Interaction Energy between the Adsorbed Particles on the Decrease of the Heat of Adsorption.....	267
Shigeo Maeda : The Sub-Structure in Single Crystals of Nickel .....	278
Ryutaro Ishiwari : Elastic and Inelastic Scattering of Protons by Be <sup>9</sup> in the Energy Region from 6.1 to 7.3 Mev.....	287
Kozo Miyake : The Phase Shift Analysis on Alpha-Alpha Scattering in the Energy Range from 22.9 to 28.1 Mev .....	313

### Note

Shinzaburo Oka : Synthesis of $\delta$ -Valerolactone .....	322
---	-----

---

<b>Abstracts</b> .....	325
------------------------	-----

化学研究所報告第39卷第4・5号

昭和36年11月10日 印刷

昭和36年11月15日 発行

【非売品】

大阪府高槻市古曾部

京都大学化学研究所

編集兼発行人

中井利三郎

京都市上京区下立売通小川東入

印刷所

中西印刷株式会社

京都市上京区下立売通小川東入

印刷者

中西勝太郎